

Figure 1

[illegible]

Abstract—The purpose of this study was to determine whether there were differences in the prevalence of musculoskeletal disorders among different types of workers in the garment industry. The study included 600 employees from two garment factories in Mexico City. Data were collected by means of a self-administered questionnaire. Results showed that the prevalence of musculoskeletal disorders was higher among female than male workers. The prevalence of musculoskeletal disorders was also higher among workers who had been employed longer than those who had been employed less than one year. The prevalence of musculoskeletal disorders was also higher among workers who worked longer hours than those who worked shorter hours. The prevalence of musculoskeletal disorders was also higher among workers who worked in the same position for longer than those who worked in the same position for less than one year. The prevalence of musculoskeletal disorders was also higher among workers who worked in the same position for longer than those who worked in the same position for less than one year.

Figure 2

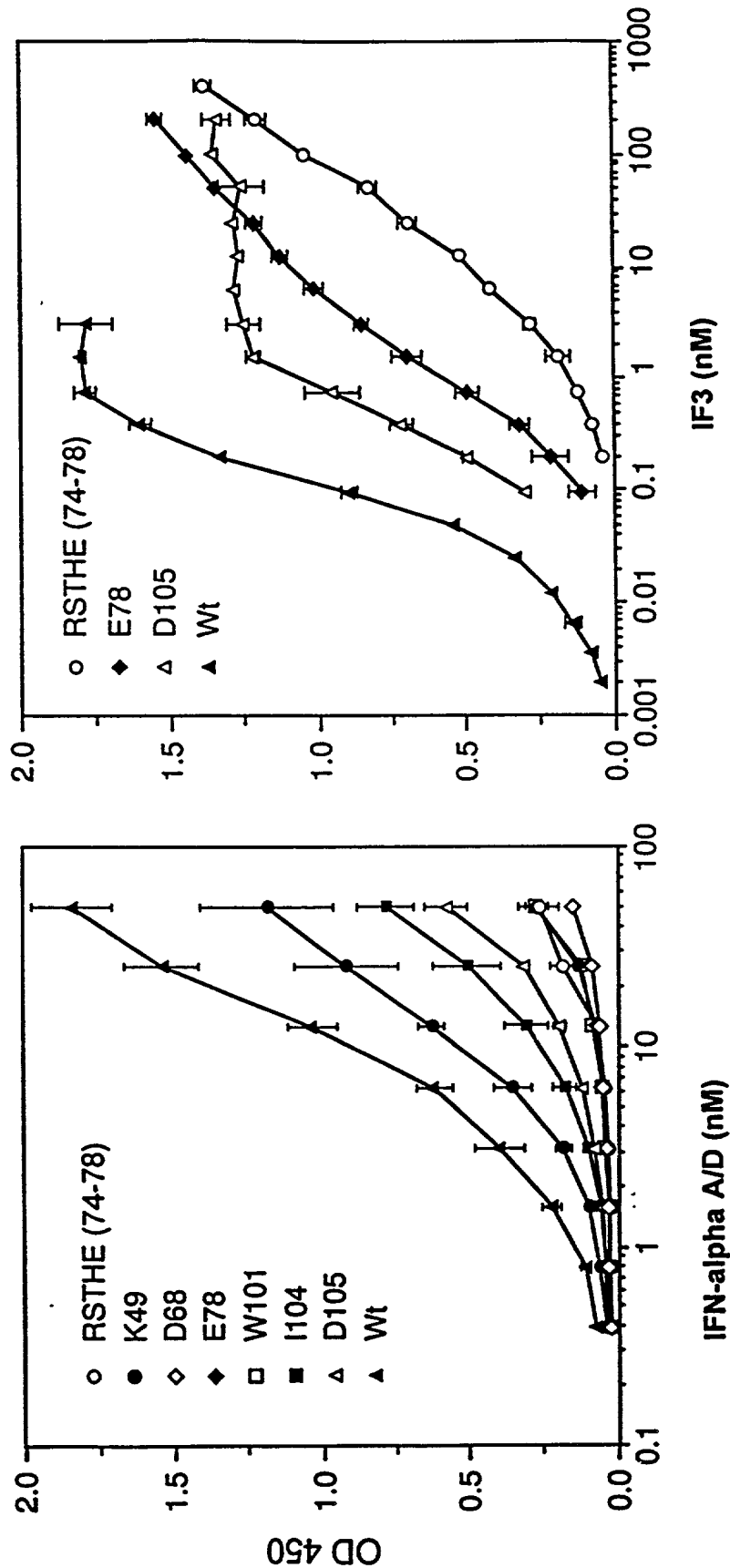


Figure 3B

Figure 3A

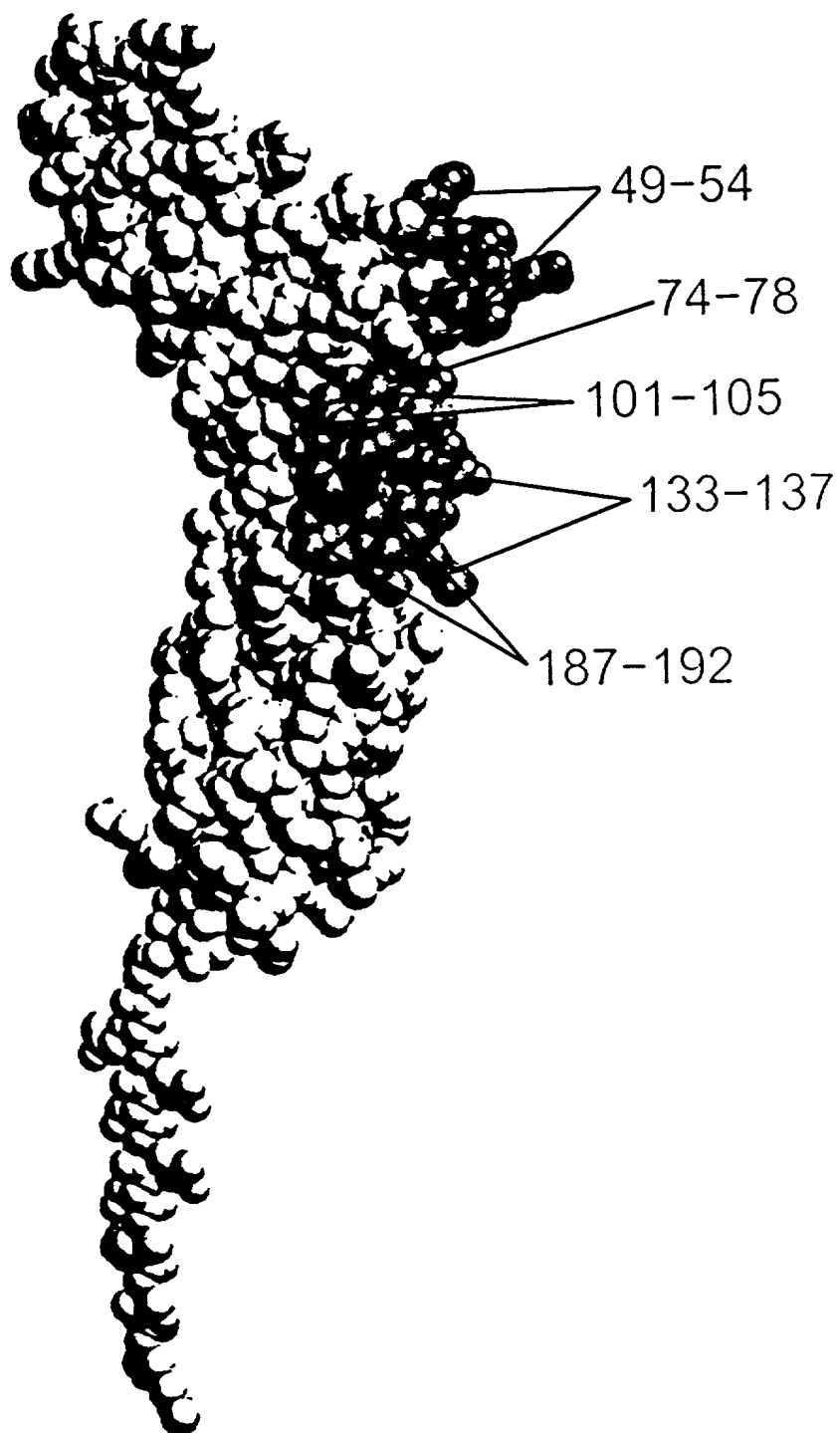


Figure 4

1 GAATTCCTAA AAATAGCAAA GATGCTTTTG AGCCAGAATG CTTTCATCGT CAGATCACCTT AATTGGTTC TCATGGTGTATA TATCAGCCTC GTGTTTGTA
CTTAAGGATT TTTATCGTTT CTACGAAAC TCGGTCTTAC GGAAGTAGCA GTCTAGTGAA TTAACCAAG AGTACCACAT ATAGTCGGAG CACAACCAT
Ile

1

human alpha beta receptor

101 TTTCATATGA TTCGCCTGAT TACACAGATG AATCTTGCAC TTTCAGATA TCATTGCGAA ATTTCCGGTC CATCTTATCA TGGGAATTAA AAAACCACTC
AAAGTATACT AAGCGGACTA ATGTGTCTAC TTAGAACGTG AAAGTTCTAT AGTAACGCTT TAAAGGCCAG GTAGAATAGT ACCCTTAATT TTTTGGTGAG
2 SerTyraS pSerProasp TyrThrAspg luserCysTh rPheLysIle SerLeuArga snPheArgSe rIleLeuSer TrpGluLeuL ysAsnHisSer
201 CATTGTACCA ACTCACTATA CATTGCTGTA TACAATCATG AGTAAACCAG AAGATTGAA GGTGGTTAAG AACTGTGCAA ATACCACAAG ATCATTTTGT
GTAAACATGGT TGAGTGATAT GTAACGACAT ATGTTAGTAC TCATTGGTC TCATAAACTT CCACCAATTC TTGACACGTT TATGGTGTTC TAGTAAACA
35 ILeValPro ThrHisTyrt hrLeuLeuty rThrIleMet SerLysProG luaspLeuLy sValVallys AsnCysAlaa snThrThrAr gSerPheCys
301 GACCTCACAG ATGAGTGGAG AAGCACACAC GAGGCCTATG TCACCGTCCT AGAAGGATTC AGCGGAACA CAACGTTGTT CAGTTGCTCA CACAATTTCT
CTGGAGTGTCT TACTCACCTC TTCGTGTGTG CTCGGGATAC AGTGGCAGGA TCTTCCTAAG TCGCCCTTGT GTTGCAACAA GTCAACGAGT GTGTTAAAGA
68 AspLeuThra spGluTrpAr gserThrHis GluAlaTyrv alThrValle uGluGlyPhe SerGlyAsnt hrThrLeuPh eSerCysSer HisAsnPhetip
401 GGCTGGCCAT AGACATGTCT TTGAAACCAC CAGAGTTTGA GATTGTTGGT TTTACCAACC ACATTAATGT GATGGTGAAA TTTCCATCTA TTGTTGAGGA
CCGACCCGGTA TCTGTACAGA AAACCTGGTG GTCTCAAACT CTAAACAACA AAATGGTTGG TGTAAATACA CTACCACITTT AAAGGTAGAT AACAACTCCT
102 LeuAlaIl easpMetSer PheGluProp roGluPheGl uIleValGly PheThrAsnH isIleAsnVa lMetVallys PheProSerI leValGluGlu
501 AGAATTACAG TTTGATTTAT CTCTCGTCAT TGAAGAACAG TCAGAGGGAA TTGTTAAGAA GCATAAACCC GAAATAAAG GAAACATGAG TGGAAATTTTC
TCTTAATGTC AAATAAATA GAGAGCAGTA ACTTCTTGTG ACTCTCCCTT AACAAATCTT CGTATTTGGG CTTTATTTTC CTTTGTACTC ACCTTTAAAG
135 GluLeuGln PheAspLeuS erLeuValIl egluGluGln SerGluGlyI leVallysLy shisLysPro GluIleLysG lyAsnMetSe rGlyAsnPhe
601 ACCTATATCA TTGACAAGTT AATTCCAAAC ACGAACTACT GTGTATCTGT TTATTTAGAG CACAGTGATG AGCAAGCAGT AATAAAGTCT CCCTTAAAT
TGGATATAGT AACTGTTCAA TTAAGGTTTG TGCTTGATGA CACATAGACA AATAAATCTC GTGTCACTAC TCGTTCGTCA TTATTTTCAGA GGGAATTTTA
168 ThrTyriIeI leAspLysLe uIleProAsn ThrAsnTyrc ysValSerVa lTyrLeuGlu HisSerAspg luGlnAlaVa lIleLysSer ProLeuLysCys
701 GCACCTCCT TCCACCTGGC CAGGAATCAG AATCAGCAGA ATCTGCCGAC AAAACTACA CATGCCACC GTGCCCAGCA CCTGAACCTC TGGGGGGACC
CGTGGGAGGA AGGTGGACCG GTCCTTAGTC TTAGTCGTCT TAGACGGCTG TTTGAGTGT GTACGGGTGG CACGGGTCTG GGACTTGAGG ACCCCCCTGG
202 ThrLeuLe uProProGly GlnGluSerG luSerAlaGl luserAlaasp LysThrHist hrCysProPr oCysProAla ProGluLeuL euglyGlyPro
IgG1
801 GTCAGTCTTC CTCTTCCCC CAAAACCCAA GGACACCTC ATGATCTCC GGACCCCTGA GGTCACATGC GTGGTGGTGG ACGTGAGCCA CGAAGACCTT
CAGTCAGAAG GAGAAGGGG GTTTGGGTT CTGTGGGAG TACTAGAGG CCTGGGACT CCAGTGACG CACCACCACC TGCACCTCGT GCTTCTGGGA
235 SerValPhe LeuPheProp roLysProLy sAspThrLeu MetIleSerA rgThrProGl uValThrCys ValValVala spValSerHi sgluAspPro

Figure 5A

901 GAGGTCAAGT TCAACTGGTA CGTGGACGGC GTGGAGGTCG ATAATGCCAA GACAAAGCCG CGGGAGGAGC AGTACAACAG CACGTACCGA GTGGTCAGCG
 CTCAGATTCA AGTTGACCAT GCACCTGCCG CACCTCCACG TATTACGGTT CTGTTCCGC GCCTCCTCG TCATGTTGTC GTGCATGGCT CACCATGTCG
 268 GluVallysp heAsnTripty rValaspGly ValgluValH isAsnAlaLys sThrLysPro ArggluGlug InTyAsnSe rThrTyArg ValValserVal
 1001 TCCTCACCGT CCTGCACCCAG GACTGGCTGA ATGGCAAGGA GTACAAGTGC AAGGTCTCCA ACAAGGCCCT CCCAGCCCCC ATCGAGAAAA CCATCTCCAA
 AGGAGTGGCA GGACGTGGTC CTGACCCGACT TACCGTTCTT CATGTTACG TTCCAGAGGT TGTTCGGGA GGTTCGGGG TAGCTCTTTT GGTAGAGGTT
 302 LeuThrVa lLeuHisGln AspTirLeuA snglyLysG lUtyrLysCys LysValSera snLysAlaLe uProAlaPro lIleGlulysT hrIleSerLys
 1101 AGCCAAAGGG CAGCCCCGAG AACCCACAGGT GTACACCCTG CCCCCATCCC GGAAGAGAT GACCAAGAAC CAGGTCAGCC TGACCTGCCT GGTCAAAGGC
 TCGGTTTCCC GTCGGGGCTC TTGGTGTCCA CATGTGGAC CATGTCTCTA CCTTCTCTA CTGGTTCTTG GTCCAGTCGG ACTGGACGGA CCAGTTTCCG
 335 AlaLysGly GlnProArg lUProGlnVa lTyThrLeu ProProSera rGluGlume tThrLysAsn GlnValSerl euthrCysLe uVallysgly
 1201 TTCTATCCCA GCGACATCGC CGTGGAGTGG GAGAGCAATG GCGAGCCGGA GAACAACACT AACACCACGC CTCCCGTGCT GGACTCCGAC GGCTCCTTCT
 AAGATAGGGT CGCTGTAGCG GCACCTCACC CTCTCGTTAC CCGTCGGCTT CTGTGTGATG TTCTGGTGCG GAGGGCACGA CTTGAGGCTG CCGAGGAAGA
 368 pheTyRProS erAspIleAl aValgluTirp GluSerAsnG lyGlnProGl uAsnAsnTyR LysThrThrP roProValle uAspSerAsp GlySerPhePhe
 1301 TCCTCTACAG CAAGCTCACC GTGGACAAGA GCAGGTGGCA GCAGGGGAAC GTCTTCTCAT GCTCCGTGAT GCATGAGGCT CTGCACAACC ACTACACGCA
 AGGAGATGTC GTTCGAGTGG CACCTGTTCT CGTCCACCGT CGTCCCCTTG CAGAAGAGTA CGAGGCACATA CGTACTCCGA GACGTGTTGG TGATGTGCGT
 402 LeuTyRse rLysLeuThr ValAspLysS erArgTirpG lNlnGlyAsn ValPheSerC ysserValme thisGluAla LeuHisAsnH isTyrThrGln
 1401 GAAGAGCCTC TCCCTGTCTC CGGGTAAATG AGTCCGACCG CCTAGAGTC GACCTGCAGA AGCTTAGAAC CGAGGGGCGG CCATGGGCCA ACTTGTTTAT
 CTTCTCGGAG AGGACACAGAG GCCCATTTAC TCACGCTGCC GGGATCTCAG CTGGACGTCT TCGAATCTTG GCTCCCCGGG GTTACCAGGT TGAACAATA
 435 LysSerLeu SerLeuSerP roglyLysOP * (SEQ ID NO.26) sv40 early
 1501 TGCAGCTTAT AATGGTTACA AATAAAGCAA TAGCATACA AATTTCACAA ATAAAGCATT TTTTTCACCTG CATTCTAGTT GTGGTTTGTC CAAACTCATC
 ACGTCGAATA TTACCAATGT TTATTTTCGTT ATCGTAGTGT TTAAGTGTT TATTTTCGTAA AAAAAGTGAC GTAAGATCAA CACCAAACAG GTTTGAGTAG
 1601 AATGTATCTT ATCATGTCTG GATCGATCGG GAATTAATC GCGGCAGCAC CATGGCCTGA AATAACCTCT GAAAGAGGAA CTTGGTTAGG TACCTTCTGA
 TTACATAGAA TAGTACAGAC CTAGCTAGCC CTTAATTAAG CCGCGTCGTG GTACCCGGACT TTATTGGAGA CTTTCTCCTT GAACCAATCC ATGGAAGACT
 sv40 origin
 1701 GCGGGAAAGA ACCAGCTGTG GAATGTGTGT CAGTTAGGTT GTGGAAAGTC CCCAGGCTCC CCAGCAGGCA GAAGTATGCA AAGCATGCAT CTCAATTAGT
 CCGCCTTCT TGGTCGACAC CTTACACACA GTCAATCCCA CACCTTTCAG GGTCCGAGG GGTGTCCTCGT CTTTCATACGT TTCGTACGTA GAGTTAATCA
 1801 CAGCAACCAG GTGTGGAAG TCCCCAGGCT CCCCAGCAGG CAGAAGTATG CAAAGCATGC ATCTCAATTA GTCAGCAACC ATAGTCCCCG CCCTAACTCC
 GTCGTTGGTC CACACCTTTC AGGGTCCGA GGGGTCGTCC GTCCTTACAT GTTTCGTACG TAGAGTTAAT CAGTCGTTGG TATCAGGGCG GGGATTGAGG

Figure 5B

1901 GCCCATCCG CCCCTAACTC CGCCCACTTC CGCCCACTCT CGGCCCACTG GCTGACTAAT TTTTCTTTTATT TATGCAGAGG CCGAGGCCGC CTCGGCCTCT
CGGGTAGGGC GGGGATTGAG GCGGATCAAG GCGGGTAAGA GCGGGGTAC CGACTGATTA AAAAAATAA ATACGTCTCC GGCTCCGGCG GAGCCGGAGA

2001 GAGCTATTCC AGAAGTAGTG AGGAGGCTTT TTTGGAGGCC TAGGCTTTTG CAAAAAGCTG TTAACAGCTT GGCACCTGGCC GTCGTTTAC AACGTCGTGA
CTCGATAAGG TCTTCATCAC TCCTCCGAAA AAACCTCCGG ATCCGAAAAC GTTTTCGAC AATTGTGAA CCGTGACCGG CAGCAAAATG TTGCAGCACT
start pUC118

2101 CTGGGAAAAC CCTGGCGTTA CCCAACTTAA TCGCCTTGCA GCACATCCCC CTTTCGCCAG CTGGCGTAAT AGCGAAGAGG CCCGCACCGA TCGCCCTTCC
GACCCTTTGG GGACCGCAAT GGGTTGAAT AGCGGAACGT CGTGTAGGGG GGAAGCGGTC GACCGCATTA TCGCTTCTCC GGGCGTGGCT AGCGGGAAGG

2201 CAACAGTTGC GTAGCCTGAA TGGCGAATGG CGCCTGATGC GGTATTTCT CTTTACGCAT CTGTGCGGTA TTTCACACCG CATACTCAA AGCAACCATA
GTTGTCAACG CATCGGACTT ACCGCTTACC GCGGACTACG CCATAAAGA GGAATGCGTA GACACGCCAT AAAGTGTGGC GTATGCAGTT TCGTTGGTAT

2301 GTACGCGCCC TGTAGCGGG CATTAAGCGC GCGGGGTGTG GTGGTTACGC GCAGCGTGAC CGCTACACTT GCCAGCGCCC TAGCGCCCGC TCCTTTTCGCT
CATGCGCGG ACATCGCCG GTAATTCGCG CCGCCACAC CACCAATGCG CGTGCACCTG GCGATGTGAA CCGTCGCGG ATCGCGGGG AGGAAAAGCGA

2401 TTTCTTCCCTT CCTTCTCGC CAGGTCGCC GGCTTCCCC GTCAAGCTCT AAATCGGGG CTCCCTTTAG GGTTCGATT TAGTGCTTTA CGGCACCTCG
AAGAAGGGA GGAAGAGCG GTGCAAGCGG CCGAAAGGG CAGTTCGAGA TTTAGCCCC TTTAGGAAATC CCAAGGCTAA ATCACGAAAT GCCGTGGAGC

2501 ACCCCAAAA ACTTGATTG GGTGATGGT CACGTAGTGG GCCATCGCCC TGATAGACGG TTTTTCGCC TTTTCGCCC TTTGACGTTG GAGTCCACGT TCCTTAATAG
TGGGGTTTTT TGAATAAAC CCACTACCAA GTGCATCACC CGGTAGCGG ACTATCTGCC AAAAAGCGG AACTGCAAC CTCAGGTGCA AGAAATTATC

2601 TGGACTCTTG TTCCAAACTG GAACAACACT CAACCCTATC TCGGGCTATT CTTTGTATT ATAGGGAAT TTGCCGATTT CGGCCCTATT GTTAAAAAAT
ACCTGAGAAC AAGGTTTGAC CTTGTTGTGA GTTGGGATAG AGCCGATAA GAAAACTAAA TATTCCCTAA AACGGCTAAA GCCGGATAAC CAATTTTTTA

2701 GAGCTGATTT AACAAAAAT TAACGCGAAT TTTAAACAAA TATTAAAGTT TACAATTTTA TGGTGACTC TCAGTACAAT CTGCTCTGAT GCCGCATAGT
CTCGACTAAA TTGTTTTTAA ATTGCGCTTA AAATTGTTTT ATAAATTGCA ATGTTAAAAAT ACCACGTGAG AGTCATGTTA GACGAGACTA CGGCGTATCA

2801 TAAGCCAACT CCGCTATCGC TACGTGACTG GGTCAATGGCT GCGCCCCGAC ACCCGCTGAC GCGCCCTGAC GGGCTTGTCT GCTCCCGGCA
ATTGCGTTGA GCGGATAGCG ATGCACTGAC CCAGTACCGA CCGGGGGCTG TGGGCGGTTG TGGGCGACTG CCGGGGACTG CCCGAACAGA CGAGGGCCGT

2901 TCCGCTTACA GACAAGCTGT GACCGTCTCC GGGAGCTGCA TGTGTCAGAG GTTTTCACCG TCATCACCGA AACGGCGGAG GCAGTATTCT TGAAGACGAA
AGGCGAATGT CTGTTCCACA CTGGCAGAGG CCTCGACGT ACACAGTCTC CAAAAGTGGC AGTAGTGGCT TTGGCGGCTC CGTCATAAGA ACTTCTGCTT

3001 AGGGCCTCGT GATACGCCTA TTTTATAGG TTTAATGTCAT GATAATAATG GTTCTTAGA CGTCAGGTGG CACTTTTTCGG GGAATGTGC GCGGAACCCC
TCCCGAGCA CTATGCGGAT AAAAATATCC AATTACAGTA CTATTATTAC CAAAGAATCT GCAGTCCACC GTGAAAAGCC CTTTACACG CGCCTTGGGG

Figure 5C

3101 TATTTGTTTA TTTTCTTAA TACATTCAAA TATGTAFCG CTCATGAGAC AATAACCCCTG ATAAATGCTT CAATAATATT GAAAAAGGAA GAGTATGAGT
ATAAACAAAT AAAAAGATT ATGTAAGTTT ATACATAGGC GAGTACTCG TTATTGGGAC TATTACGAA GTTATTATAA CTTTTTCCTT CTCATACTCA

3201 ATTCAACATT TCGGTGTCG CCTTATTCCT TTTTTGCGG CATTTTGCCT TCCTGTTTTT GCTCACCCAG AAACGCTGGT GAAAGTAAAA GATGCTGAAG
TAAGTTGTAA AGGCACAGCG GGAATAAGG AAAAAACGCC GTAAAAACGGA AGGACAAAAA CGAGTGGTC TTTCGACCA CTTTCATTTT CTACGACTTC

3301 ATCAGTTGGG TGCACGAGTG GGTACATCG AACTGGATCT CAACAGCGGT AAGATCCTTG AGAGTTTTTCG CCCCAGAGAA CGTTTTCCAA TGATGAGCAC
TAGTCAACCC ACGTGCTCAC CCAATGTAGC TTGACCTAGA GTTGTCGCCA TTCTAGGAAC TCCTCAAAAGC GGGGCTTCTT GCAAAAAGGTT ACTACTCGTG

3401 TTTTAAAGTT CTGCTATGTG GCGCGTATT ATCCCGTGAT GACGCCGGG AAGAGCAACT CCGTCGCCG ATACACTATT CTCAGAATGA CTTGGTTGAG
AAAAATTCAA GACGATACAC CGCGCCATAA TAGGGCACTA CTGCGGCCCG TTCTCGTTGA GCCAGCGCG TATGTGATAA GAGTCTTACT GAACCAACTC

3501 TACTCACCCG TCACAGAAAA GCATCTTACG GATGGCATGA CAGTAAGAGA ATTATGCAGT GCTGCCATAA CCATGAGTGA TAACACTGCG GCCAACTTAC
ATGAGTGGTC AGTGCTCTTT CGTAGAATGC CTACCGTACT GTCAATTCTCT TAATACGTCA CGACGGTATT GGTACTCACT ATTGTGACGC CGGTTGAATG

3601 TTCTGACAAC GATCGGAGGA CCGAAGGAGC TAACCGCTTT TTTGCACAAC ATGGGGATC ATGTAACCTG CCTTGATCGT TGGGAACCCG AGCTGAATGA
AAGACTGTTG CTAGCCTCCT GGCTTCTCTG ATTGGCGAAA AAACGTGTTG TACCCCTAG TACATTGAGC GGAACCTAGCA ACCCTTGGCC TCGACTTACT

3701 AGCCATACCA AACGACGAGC GTGACACCAC GATGCCAGCA GCAATGGCAA CAACGTTGCG CAAACTATTA ACTGGGAAAC TACTTACTCT AGCTTCCCGG
TCGGTATGGT TTGCTGCTCG CACTGTGGTG CTAACGCTGT CGTTACCGTT GTTGCAACGC GTTGATAAT TGACCGCTTG ATGAATGAGA TCGAAGGGCC

3801 CAACAAATTA TAGACTGGAT GGAGGCGGAT AAAGTTGCAG GACCACCTCT GCGCTCGGCC CTTCGGGCTG GCTGGTTTAT TGCTGATAAA TCTGGAGCCG
GTTGTTAATT ATCTGACCTA CCTCCGCCTA TTTCAACGTC CTGGTGAAGA CGCGAGCCG GAAGGCCGAC CGACCAATAA ACGACTATT AGACCTCGGC

3901 GTGAGCGTGG GTCTCGCGGT ATCATTGCAG CACTGGGGCC AGATGGTAAG CCCTCCCGTA TCGTAGTTAT CTACACGACG GGGAGTCAGG CAACTATGGA
CACTCGCACCC CAGAGCGCCA TAGTAACGTC GTGACCCCGG TCTACCATTC GGGAGGGCAT AGCATCAATA GATGTGCTGC CCCTCAGTCC GTTGATACCT

4001 TGAACGAAAT AGACAGATCG CTGAGATAGG TGCCTCACTG ATTAAGCATT GGTAACCTGTC AGACCAAGTT TACTCATATA TACTTTAGAT TGATTTAAAA
ACTTGCTTTA TCTGTCTAGC GACTCTATCC ACGGAGTGAC TAATTCTGTAA CCAATTGACAG TCTGGTTCAA ATGAGTATAT ATGAAATCTA ACTAAAAATTT

4101 CTTCAATTTT AATTTAAAA GATCTAGGTG AAGATCCTTT TTGATAATCT CATGACCAA ATCCCTTAAC GTGAGTTTTC GTTCCACTGA GCGTCAGACC
GAAGTAAAAA TTAAATTTTC CTAGATCCAC TTCTAGGAAA AACTATTAGA GTACTGGTTT TAGGGAATTG CACTCAAAAAG CAAGGTGACT CGCAGTCTGG

4201 CCGTAGAAAA GATCAAAAGGA TCTTCTTGAG ATCTTTTTTT TCTGCGCGTA ATCTGTGCT ATCAACAAA AAAACCCACG CTACCCAGCGG TGGTTTGT
GGCATCTTTT CTAGTTTCT AGAAGAACTC TAGGAAAAAA AGACGGGCAT TAGACGACGA ACGTTTGT TTTTGGTGGC GATGGTCGCC ACCAAAAAAA

4301 GCCGGATCAA GAGCTACCAA CTCTTTTTCC GAAGGTAACCT GGCTTCAGCA GAGCGCAGAT ACCAAATACT GTCTTCTTAG TGTAGCCGTA GTTAGGCCAC
CGGCCATGTT CTCGATGGTT GAGAAAAAGG CTTCCATTGA CCGAAGTCGT CTCGCGTCTA TGGTTTATGA CAGGAAGATC ACATCGGCAT CAATCCGGTG

Figure 5D

4401 CACTTCAAGA ACTCTGTAGC ACGCCTACA TACCTGGCTC TGCTAATGCT GTTACCAGTG GCTGCTGCCA GTGGCGATAA GTCGTGTCTT ACCGGGTTGG
 GTGAAGTTCT TGAGACATCG TGGCGGATGT ATGGAGCGAG ACGATTAGGA CAATGGTCA CACGACGGT CACCGCTATT CAGCACAGAA TGGCCCAACC

4501 ACTCAAGACG ATAGTTACCG GATAAGGCGC AGCGTTCGGG CTGAACGGGG GGTTCGTGCA CACAGCCCAG CTTGGAGCGA ACGACCTACA CCGAACTGAG
 TGAGTTCTGC TATCAATGGC CTATTCCGCG TCGCCAGCCC GACTTGCCCC CCAAGCACGT GTGTGGGTC GAACCTCGT TGCTGGATGT GGCTTGACTC

4601 ATACCTACAG CGTGAGCATT GAGAAAGCGC CACGCTTCCC GAAGGGAGAA AGCGGACAG GTATCCGGTA AGCGGCAGGG TCGGAACAGG AGAGCGCACG
 TATGGATGTC GCACTCGTAA CTCTTTTCGCG GTGCGAAGGG CTTCCTCTTT TCCGCTGTC CATAGGCCAT TCGCCGTCCC AGCCTTGTCC TCTCGCGTGC

4701 AGGAGCTTC CAGGGGAAA CGCCTGGTAT CTTTATAGTC CTGTGGGTT TCGCCACCTC TGACTTGGAG GTCGATTTT GTGATGCTCG TCAGGGGGG
 TCCCTCGAAG GTCCCTCTT GCGGACCATA GAAATATCAG GACAGCCCAA AGCGTGGAG ACTGAACCTG CAGCTAAAAA CACTACGAGC AGTCCCCCCC

4801 GGAGCCTATG GAAAAACGCC AGCAACGCGG CCTTTTACG GTTCTGGCC TTTTGTGCTCA CATGTTCTTT CCTGCGTTAT CCCCTGATTC
 CCTCGGATAC CTTTTCGG TCGTTGCGC GAAAAATGC CAAGGACCG GAAAAACGAGT GTACAAGAAA GGACGCAATA GGGGACTAAG

4901 TGTGGATAAC CGTATTACCG CCTTTGAGTG AGCTGATACC GCTCGCCGCA GCCGAACGAC CGAGCGCAGC GAGTCAGTGA GCGAGGAAGC GGAAGAGCGC
 ACACCTATTG GCATAATGCG GGAACCTCAC TCGACTATGG CGAGCGGCGT CGGCTTGCTG GCTCGCGTCG CTCAGTCACT CGCTCCTTCG CCTTCTCGCG

5001 CCAATACGCA AACCGCCTCT CCCCGCGGT TGGCCGATTC ATTAATCCAG CTGGCACGAC AGGTTTCCCG ACTGGAAGC GGGCAGTGAG CGCAACGCAA
 GGTATGCGT TTGGCGGAGA GGGCGCGCA ACCGGCTAAG TAATTAGTGC GACCGTGCTG TCCAAAGGGC TGACCTTTTCG CCCGTCACTC GCGTTGCGTT

5101 TTAATGTGAG TTACCTCACT CATTAGGCAC CCCAGGCTTT ACACTTTATG GTATGTTGTG TGGAAATTGT AGCGGATAAC AATTCACAC
 AATTACACTC AATGGAGTGA GTAATCCGTG GGTCCGAAA TGTGAAATAC GAAGGCCGAG CATAACACAC ACCTTAACAC TCGCCTATTG TTAAAGTGTG

5201 AGGAAACAGC TATGACCATG ATTACGAATT AATTCGAGCT CGCCCGACAT TGATTATTGA CTAGTTATTA ATAGTAATCA ATTACGGGGT CATTAGTTCA
 TCCTTTGTG ATACTGGTAC TAATGCTTAA TTAAGCTCGA GCGGGCTGTA ACTAATAACT GATCAATAAT TATCATTAGT TAATGCCCCA GTAATCAAGT

from pPMLCMV beginning to HindIII, enhancers and promoter

5301 TAGCCCATAT ATGGAGTTCC GCGTTACATA ACTTACGGTA AATGGCCCCG CTGGCTGACC GCCCAACGAC CCCCCCCCAT TGACGTCAAT AATGACGTAT
 ATCGGGTATA TACCTCAAGG CGCAATGTAT TGAATGCCAT TTACCGGGCG GACCGACTGG CGGTTGCTG GGGCGGGTA ACTGCAGTTA TTACTGCATA

5401 GTTCCCATAG TAACGCCAAT AGGACTTTT CATTGACGTC AATGGGTGGA GTATTTACGG TAAACTGCC ACTTGGCAGT ACATCAAGTG TATCATATGC
 CAAGGGTATC ATTGCGGTTA TCCCTGAAAG GTAACCTGCAG TTACCCACCT CATAAATGCC ATTTGACGGG TGAACCGTCA TGTAAGTTAC ATAGTATACG

5501 CAAGTACGCC CCCTATTGAC GTCAATGACG GTAAATGGCC CGCCTGGCAT TATGCCAGT ACATGACCTT ATGGGACTTT CTACTTGGC AGTACATCTA
 GTTCATGCGG GGGATAACTG CAGTTACTGC CATTTACCG GCGGACCGTA ATACGGGTCA TGTACTGGAA TACCTGAAA GGATGAACCG GCATGTAGAT

Figure 5E

5601 CGTATTAGTC ATCGCTATTA CCATGGTGAT GCGGTTTGG CAGTACATCA ATGGGCGTGG ATAGCGGTTT GACTCACGGG GATTTCCAAG TCTCCACCCC
GCATAATCAG TAGCGATAAT GGTACCACTA CGCCAAACC GTCATGTAGT TACCCGCACC TATCGCCAAA CTGAGTGCCC CTAAAGGTTT AGAGGTGGGG
5701 ATTGACGTCA ATGGGAGTTT GTTTTGGCAC CAAATCAAC GGGACTTTCC AAAATGTCGT AACAACTCCG CCCCATTTGAC GCAAAATGGGC GGTAGGCGTG
TAACTGCAGT TACCCTCAA TACCCCTCAA GTTTTAGTTG CCTGAAAGG TTTTACAGCA TTGTGAGGC GGGGTAAC TG TTTTACCCG CCAATCCGCAC
5801 TACGGTGGGA GGTCTATATA AGCAGAGCTC GTTTAGTGAA CCGTCAGATC GCCTGGAGAC GCCATCCACG CTGTTTTGAC CTCCATAGAA GACACCGGGA
ATGCCACCCCT CCAGATATAT TCGTCTCGAG CAAATCACIT GGCAGTCTAG CGGACCTCTG CGGTAGGTGC GACAAAAC TG GAGGTATCTT CTGTGGCCCT
5901 CCGATCCAGC CTCCGCGGCC GGGAAACGGT CATTTGGAACG CGGATTTCCC GTGCCAAGAG TGACGTAAGT ACCGCCTATA GAGTCTATAG GCCCACCCCC
GGCTAGGTCG GAGGCGCCCG CCTTTGCCAC GTAAACCTTGC GCCTAAGGG CACGGTTCTC ACTGCATTCA TGGCGGATAT CTCAGATATC CGGGTGGGG
6001 TTGGCTCGTT AGAACGCGGC TACAATTAAAT ACATAACCTT ATGTATCATA CACATACGAT TTAGGTGACA CTATAGAATA ACATCCACTT TGCCTTTCTC
AACCAGACAA TCTTGGCCCG ATGTTAAATTA TGTATTGGAA TACATAGTAT GTGTATGCTA AATCCACTGT GATATCTTAT TGTAGGTGAA ACGGAAAAGAG
sp6 promoter
6101 TCCACAGGTG TCCACTCCCA GGTCCAACTG CAGGCCATGG CGGCCATCGA TT (SEQ ID NO.25)
AGGTGTCAC AGGTGAGGCT CCAGGTTGAC GTCCGGTACC GCCGGTAGCT AA
cloning linker
sp6 RNA start

Figure 5F